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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/409,478 09/30/1999 ROBERT D. TYLER WICP.68041 5420 7590 06/25/2003 SHOOK HARDY & BACON LLP EXAMINER ONE KANSAS CITY PLACE 1200 MAIN STREET LEE, EDMUND H KANSAS CITY, MO 641052118 ART UNIT PAPER NUMBER 1732 8 DATE MAILED: 06/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	MK-C
Office Action Summary	09/409,478	TYLER	
	Examiner	Art Unit	
	EDMUND H LEE	1732	
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun If the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum statu Failure to reply within the set or extended period for repl	A LION. 37 CFR 1.136(a). In no event, however, may a r nication. days, a reply within the statutory minimum of thirt tory period will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communic	cation.
1) Responsive to communication(s) filed	d on <u>05 April 2003</u> .		
2a)⊠ This action is FINAL. 2b) This action is non-final.		
3) Since this application is in condition for closed in accordance with the practice Disposition of Claims	or allowance except for formal mat e under <i>Ex parte Quayle</i> , 1935 C.[ters, prosecution as to the men D. 11, 453 O.G. 213.	its is
4)⊠ Claim(s) <u>1-5,7-18 and 20</u> is/are pendir	ng in the application.		
4a) Of the above claim(s) is/are	withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-5,7-18 and 20</u> is/are rejecte	d.		
7) Claim(s) is/are objected to.		10	
8) Claim(s) are subject to restriction Application Papers	n and/or election requirement.		
9)☐ The specification is objected to by the E	xaminer.		
10) The drawing(s) filed on is/are: a)[e Examiner	!
Applicant may not request that any objecti	on to the drawing(s) be held in abevar	oce. See 37 CFR 1 85(a)	
11) The proposed drawing correction filed or	n is: a) approved b) dis	sapproved by the Examiner	
If approved, corrected drawings are require	ed in reply to this Office action.	The second secon	
12) The oath or declaration is objected to by	the Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			}
13) Acknowledgment is made of a claim for	foreign priority under 35 U.S.C. §	119(a)-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	•	(-) (-) - (()	
1. Certified copies of the priority doc	cuments have been received.		
2. Certified copies of the priority doc		olication No	
3. Copies of the certified copies of the	ne priority documents have been re	eceived in this National Stage	
14) Acknowledgment is made of a claim for de	Omestic priority under 35 U.S.C. s	110(a) (to a ===================================	
a) The translation of the foreign langua	ge provisional application has bee	n received	ition).
Attachment(s)	p	5 120 and/of [2].	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9 3) Information Disclosure Statement(s) (PTO-1449) Paper I		mmary (PTO-413) Paper No(s)	

DETAILED ACTION

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schriner et al (USPN 2915427) in view of Reuben (USPN 5171619) and Bailey (USPN 4828898). In regard to claim 1, Schriner et al teach the basic claimed process including a method of producing a vehicle mat (figs 1-4); providing a sheet of thermoplastic material, the sheet having a first and second side (figs 1-4); placing the sheet in contact with a contoured molding tool, the first side directed toward the tool and the second side directed away from the tool (figs 1-4); heating the sheet (col 2, Ins 57-64); and vacuum forming (drawing) the sheet toward the tool until the sheet is substantially shaped to the contour of the tool (figs 1-4). In addition, Schriner et al also teach placing the carpet side of the mat against the mold and the backing side away from the mold (figs 1-4). However, Schriner et al does not teach using a sheet of thermoplastic material wherein the second side has a plurality of nibs extending therefrom; using a molding tool having one or more sidewalls that extend upwardly from a flat base and a top surface; and locating the second side of the sheet directed away from the tool. Reuben teaches a method of producing a vehicle mat (figs 1-4); and extruding a sheet of thermoplastic material (thermoplastic elastomer), the sheet having

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a first and second side, the second side having a plurality of nibs extending therefrom (figs 1-4). Schriner et al and Reuben are combinable because they are analogous with respect to vehicle mats. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the mat of Reuben for the fabric/mat of Schriner et al in order to produce a high-quality vehicle mat having greater traction to an underlying surface. It should be noted that the combination of Schriner et al and Reuben would direct one of ordinary skill in the art to place the carpet side of the mat of Schriner et al (modified) against the mold of Schriner et al thus the nib side of the mat of Schriner et al (modified) would be facing away from the mold. Bailey teaches molding a vehicle mat having a one or more sidewalls and a top surface (fig 4); and vacuum

forming the mat to the desired contour between two mold dies each having a flat base (figs 4-5). Schriner et al and Bailey are combinable because they are analogous with respect to vehicle mats. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to redesign the mold tool of Schriner et al to produce the contour of Bailey, i.e., redesigning the mold tool to have one or more sidewalls that extend upwardly from a flat base and a top surface, in order to produce a diverse vehicle mat that can nest within and abut against the sides of a carpeted floor well of a vehicle. In regard to claims 2-5 and 7-8, Schriner et al teach drawing by differential pressure (figs 1-4); applying the vacuum pressure through vacuum apertures in the tool (figs 1-4); using a male tool (figs 1-4); producing at least one mat (figs 1-4); and cooling the sheet and removing the sheet from the tool (figs 1-4)—as a note, this is inherent with the process of Schriner et al in order to produce a useable mat. However,

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Schriner et al does not teach using a thermoplastic elastomer. The combination of Reuben and Schriner et al teach using a thermoplastic elastomer.

3. Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schriner et al (USPN 2915427) in view of Reuben (USPN 5171619) and Bailey (USPN 4828898). In regard to claim 9, Schriner et al teach the basic claimed process including a method of producing a vehicle mat (figs 1-4); providing a sheet of thermoplastic material, the sheet having a first side (figs 1-4); placing the sheet in contact with a contoured molding tool, the first side directed away from the tool (figs 1-4); heating the sheet to a plastic state (col 2, lns 57-64); and vacuum forming (drawing) the sheet toward the tool until the sheet is substantially shaped to the contour of the tool (figs 1-4).

In addition, Schriner et al also teach placing the carpet side of the mat against the mold and the backing side away from the mold (figs 1-4). However, Schriner et al does not teach extruding a sheet of thermoplastic material between a pair of rollers wherein one of the rollers has a plurality of indentations to form nibs on a first side of the sheet; using a molding tool having one or more sidewalls that extend upwardly from a flat base and a top surface; and locating the first side of the sheet directed away from the tool. Reuben teaches a method of producing a vehicle mat (figs 1-4); extruding a sheet of thermoplastic material (thermoplastic elastomer), the sheet having a first side with a plurality of nibs extending therefrom (figs 1-4); and using a pair of rollers wherein one of the rollers has a plurality of indentations to form nibs on a first side of the sheet (figs 1-

4). Schriner et al and Reuben are combinable because they are analogous with respect to vehicle mats. Thus, it would have been obvious to one of ordinary skill in the art at

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the time the invention was made to substitute the extruded mat of Reuben for the fabric/mat of Schriner et al in order to produce a high-quality vehicle mat having greater traction to an underlying surface. It should be noted that the combination of Schriner et al and Reuben would direct one of ordinary skill in the art to place the carpet side of the mat of Schriner et al (modified) against the mold of Schriner et al thus the nib side of the mat of Schriner et al (modified) would be facing away from the mold. Bailey teaches molding a vehicle mat having a one or more sidewalls and a top surface (fig 4); and vacuum forming the mat to the desired contour between two mold dies each having a flat base (figs 4-5). Schriner et al and Bailey are combinable because they are analogous with respect to vehicle mats. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to redesign the mold tool of Schriner et al to produce the contour of Bailey, i.e., redesigning the mold tool to have one or more sidewalls that extend upwardly from a flat base and a top surface, in order to produce a diverse vehicle mat that can nest within and abut against the sides of a carpeted floor well of a vehicle. In regard to claims 10-12, Schriner et al teach drawing by vacuum pressure (figs 1-4). However, Schriner et al does not teach using a thermoplastic elastomer; and using the blend of claim 11. In regard to using a thermoplastic elastomer, such is taught by the combination of Reuben and Schriner et In regard to using the blend of claim 11, such is a mere obvious matter of choice dependent on the desired final product and material availability and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed material is well-known for its durability. Thus, it

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would have been obvious to one of ordinary skill in the art at the time the invention was made mold the mat of Schriner et al (modified) from the claimed material in order to impart durability to the mat.

Claims 13-18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable

over Schriner et al (USPN 2915427) in view of Reuben (USPN 5171619) and Bailey (USPN 4828898). In regard to claim 13, Schriner et al teach the basic claimed process including a method of producing a vehicle mat/part (figs 1-4); providing a sheet of thermoplastic material, the sheet having a first and second side (figs 1-4); placing the sheet in contact with a contoured molding tool, the first side directed toward the tool and the second side directed away from the tool (figs 1-4); heating the sheet (col 2, lns 57-64); and vacuum forming (drawing) the sheet toward the tool until the sheet is substantially shaped to the contour of the tool (figs 1-4). In addition, Schriner et al also teach placing the carpet side of the mat against the mold and the backing side away from the mold (figs 1-4). However, Schriner et al does not teach using a sheet of thermoplastic material wherein the second side has a plurality of nibs extending therefrom; using a molding tool having one or more sidewalls that extend upwardly from a flat base and a top surface; and locating the second side of the sheet directed away from the tool. Reuben teaches a method of producing a vehicle mat (figs 1-4); and extruding a sheet of thermoplastic material (thermoplastic elastomer), the sheet having a first and second side, the second side having a plurality of nibs extending therefrom (figs 1-4). Schriner et al and Reuben are combinable because they are analogous with respect to vehicle mats. Thus, it would have been obvious to one of ordinary skill in the

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art at the time the invention was made to substitute the mat of Reuben for the fabric/matof Schriner et al in order to produce a high-quality vehicle mat having greater traction to
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art at the time the invention was made to redesign the mold tool of Schriner et al to produce the contour of Bailey, i.e., redesigning the mold tool to have one or more sidewalls that extend upwardly from a flat base and a top surface, in order to produce a diverse vehicle mat that can nest within and abut against the sides of a carpeted floor well of a vehicle. In regard to claims 14-18 and 20, Schriner et al teach drawing by differential pressure (figs 1-4); applying the vacuum pressure through vacuum apertures in the tool (figs 1-4); using a male tool (figs 1-4); producing at least one mat (figs 1-4); and cooling the sheet and removing the sheet from the tool (figs 1-4)—as a note, this is inherent with the process of Schriner et al in order to produce a useable mat. However, Schriner et al does not teach using a thermoplastic elastomer; and using the blend of claim 15. The combination of Reuben and Schriner et al teach using a thermoplastic elastomer. In regard to using the blend of claim 15, such is a mere obvious matter of

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choice dependent on the desired final product and material availability and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the claimed process. Further, the claimed material is well-known for its durability. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made mold the mat of Schriner et al (modified) from the claimed material in order to impart durability to the mat.

5. Applicant's arguments filed 4/5/03 have been fully considered but they are not persuasive. Applicant's argues that none of the references teach heating the sheet after placing the sheet in contact with the molding tool. This argument is misplaced because the instant claims do not require that the sheet be heated after placement on the molding tool. The claims merely recite heating the sheet to a plastic state. There is no reference to heating the sheet while in contact with the molding tool. Applicant is reminded that a listing of steps in a method claim does not imply a sequence unless each step makes a reference to a previous step. Applicant also argues that none of the references teach drawing the sheet toward the molding tool after heating step. This argument is misplaced because the instant claims do not require that the sheet be drawn after the heating step. The claims merely recite drawing the sheet to a plastic state. There is no reference to drawing a heated sheet. Applicant is reminded that a listing of steps in a method claim does not imply a sequence unless each step makes a reference to a previous step. Applicant also argues that there is no suggestion to combine the references. Here, each reference teaches providing floor mats for

automobiles wherein the mats have a plastic backing layer and fabric top layer. The motivation to combine the references is to efficiently produce a non-slip, contoured floor mat for an automobile

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fujiki (USPN 5554333) and Price (USPN 3555601) teach extrusion molding nibs. Sugihara (USPN 602044) teach vacuum forming mats having the claimed shape.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H LEE whose telephone number is

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703.305.4019. The examiner can normally be reached on MONDAY-THURSDAY

FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD CRISPINO can be reached on 703.308.3853. The fax phone numbers for the organization where this application or proceeding is assigned are 703.305.7718 for regular communications and 703.305.3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is

703.308.0661.

EDMUND H LEE

Examiner

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EHL June 19, 2003

> MARK EASHOO, PH.D. PRIMARY FXAMINED

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24 Jul 03